# **CITY OF MERCER ISLAND**

# **DEVELOPMENT SERVICES GROUP**

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org

Inspection Requests: Online: www.MyBuildingPermits.com VM: 206.275.7730



# SITE DEVELOPMENT INFORMATION

	Worksheet for single family	residential developm	ent			
	***************************************					
PROJECT INFORMA						
Permit Number:	1904-048	Parcel Number:	5315100125			
Site Address:	7450 N Mercer Way	Phone Number:	206-954-300			
Owner Name:	Sean & Lori Kell	Date:	June 10, 202			
Signature & phone	number of Individual who completed	d this worksheet:	À	SDV	V-1/2	20/22
	200 207 4	1504	2.5	Pg 2	is Up	odated
C:	206-297-1 Phone N					
Signature	Phone N	umber				
GENERAL INFORM	ATION					
Will any large trees	s be removed as a result of this devel	onment activity?	Ye	s 🗸	No	
AND A SECURITION OF THE PROPERTY OF THE PROPER	ith diameter of greater than or equal		1.70	ب ا		
370 300 300 300				. —	1221	
Do you have an Accessory Dwelling Unit?  New ADU Existing ADU				No		
Will you be adding air conditioning to the proposed development?						$\checkmark$
	t and is not a substitute for the Mero City Code. The City may require of Egulations.					
LOT SLOPE						
piece of land calcu	Mercer Island City Code, slope is a me lated by subtracting the lowest eleva ing number by the shortest horizonta ed by 100.	tion of the property f	rom the high	est ele	vation	n, and
LOT SLOPE CALCUI	LATIONS					
Highest Elevation F	Point of Lot:	45.5			Fee	t
Lowest Elevation P	oint of Lot:	15.7			Fee	t
Elevation Difference	ce:	29.8			Fee	t
Horizontal Distance	e Between High and Low Points:	370			Fee	t
Lot Slope*		8			- %	
*Lot slope is the el	evation difference divided by horizon	tal distance multiplied	d by 100.			

#### LOT COVERAGE

For single family residential development, "lot coverage" is the area of a lot that may be covered by a combination of the buildings and vehicular driving surfaces. The maximum lot coverage for a specific lot is based upon the lots slope (see above). The area of the lot that <u>cannot</u> be used for lot coverage is "required landscaping area"; the landscaping area is typically improved with either hardscape (see below) or softscape. **Please note:** Lot coverage is not the same as impervious surface calculations used for drainage review.

Lot Slope	Maximum Lot Coverage (House, driving surfaces, and accessory buildings)	Required Landscaping Area
Less than 15%	40%	60%
15% to less than 30%	35%	65%
30% to 50%	30%	70%
Greater than 50% slope	20%	80%

#### LOT COVERAGE CALCULATIONS

A.	Allowed Lot Coverage	40	% of Lot
В.	Allowed Lot Coverage Area	12,378	Square Feet
C.	Gross Lot Area	30,945	Square Feet
D.	Net Lot Area	30,945	Square Feet
E.	Main Structure Roof Area	4,981	Square Feet
F.	Accessory Building Roof Area	1,702	Square Feet
G.	Vehicular Use (driveway, access easements, parking)	3,558	Square Feet
Н.	Total Existing Lot Coverage Area	10,241	Square Feet
1.	(Total Lot Coverage Area Removed)	(3,502)	Square Feet
J.	Total New Lot Coverage Area	4,015	Square Feet
K.	Total Project Lot Coverage Area = (H-I) + J	10,241	Square Feet
L.	Proposed adjustment for single story	<b>&gt;</b> 0 <b>)</b>	Square Feet
M.	Proposed adjustment for flag lot	> 0 }	Square Feet
N.	Proposed Lot Coverage = (K/D)x100	33.1	% of Lot

## **HARDSCAPE**

For single family residential development, hardscape is the solid, hard, elements or structures that are incorporated into landscaping. The hardscape includes, but is not limited to, structures, paved areas, stairs, walkways, decks, patios, and similar constructed elements. The hardscape within the landscaping area consists of materials such as wood, stone, concrete, gravel, permeable pavements or pavers, and similar materials. Hardscape does not include solid, hard elements or structures that are covered by a minimum of two feet of soil intended for softscape (for example, a septic tank covered with at least two feet of soil and planted shrubs is not hardscape). The hardscape does not include driving surfaces or buildings.

Up to 9% of the net lot area may consist of hardscape areas. In addition, unused lot coverage may also be improved with hardscape.

What is the total square footage of all hardscape on property?

What is the total square footage of all decks on property?

Square Feet
Square Feet

#### **ALLOWED ADJUSTMENTS**

A one-time reduction in the required landscaping area and an increase in the allowed maximum lot coverage is allowed if:

- A. The total reduction in required landscaping area shall not exceed 5%, and the total increase in maximum lot coverage shall not exceed 5%; and
- B. The reduction in required landscaping area is associated with:
  - 1. A development proposal that will result in a single-story dwelling with wheelchair accessible entry, and may also include a single-story accessory building; or
  - 2. A development proposal on a flag lot that, after optimizing driveway routing and minimizing driveway width, requires a driveway that is more than the 25% of the allowed lot coverage. The allowed reduction in the required landscaping area and increase in the maximum lot coverage shall not exceed 5% or the area of the driveway in excess of 25% of the lot coverage, whichever is less.

For example, a development proposal with a driveway that occupies 27% of the allowed lot coverage, may increase the total lot coverage by 2%

C. A recorded notice on title, covenant, easement, or other documentation in a form approved by the city, shall be required. The notice on title or other documentation shall describe the basis for the reduced landscaping area and increase in lot coverage.

	Does this i	project	include a	proposed	adjustment?
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Yes	No	$\checkmark$	
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#### **BUILDING AREA**

All building areas must be identified and labeled on the site plan. Please distinguish all new construction from existing areas on both your drawing and in the calculations you complete below.

Will	you be	excludin	g a	portion	of the	basement f	loor	area
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Voc	No	./	١
YES	 ו סעו	I ✓ I	ı

If yes, you must provide basement floor area calculations, with your building permit application, that show how you determined what portion of the basement will be excluded. Refer to page 5.

# **BUILDING AREA CALCULATIONS**

	<b>Building Area</b>	Existin	g Area	Remove	ed Area	New/Add	ition Area	To	tal
	Upper Floor	2,681	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	2,681	Sq. Ft.
#1	Main Floor	4,416**	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	4,416	Sq. Ft.
	Gross Basement		Sq. Ft.		Sq. Ft.		Sq. Ft.		Sq. Ft.
	Area	1,736		0		0		1,736	
#2	Garage/ Carport	1,441	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	1,441	Sq. Ft.
	<b>Total Floor Area</b>	10,274	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	10,274	Sq. Ft.
	Accessory Buildings	997	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	997	Sq. Ft.
	Basement Area								
	Excluded	( 0 )	Sq. Ft.	( 0 )	Sq. Ft.	( 0 )	Sq. Ft.	( 0 )	Sq. Ft.
	150% GFA Modifier*	0	Sq. Ft.		Sq. Ft.		Sq. Ft.	0	Sq. Ft.
#3	200% GFA Modifier*	228	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	228	Sq. Ft.
	Staircase GFA								
	Modifier*	0	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.
	<b>TOTAL Building Area</b>	11,499	Sq. Ft.	0	Sq. Ft.	0	Sq. Ft.	11,499	Sq. Ft.

<sup>\*</sup>Enter the actual room area

<sup>\*\*</sup>Breakdown: 3,317 sf + 492 sf + 331 sf + 215 sf + 61 sf = 4,416 sf #1 (4,416 sf) + #2 (1,441 sf) + #3 (228 sf) = 6,085 sf as shown on A-1.2 Detail 2 "Net Main Floor Area"

# **GROSS FLOOR AREA (GFA)**

For single family residential development, GFA is the total square footage of floor area, bounded by the exterior faces of the building(s). The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, stair cases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks.

#### Allowed GFA

- A. R-8.4: 5,000 square feet or 40% of the lot area, whichever is less.
- B. R-9.6: 8,000 square feet or 40% of the lot area, whichever is less.
- C. R-12: 10,000 square feet or 40% of the lot area, whichever is less.
- D. R-15: 12,000 square feet or 40% of the lot area, whichever is less.
- E. All zones: Lots with a lot area of 7,500 square feet or less, the lesser of 3,000 square feet or 45% of the lot area.
- F. All zones: If an accessory dwelling unit is proposed, the 40% allowed GFA may be increased by the lesser of 5 percentile points, or the floor area of the accessory dwelling unit. Provided, this allowance shall not result in a GFA of more than 4,500 square feet or 45% of the lot area, whichever is less.

#### **GFA Modifiers \***

- A. The GFA calculation for a floor with a ceiling height of 12 to 16 feet, is 150% of the area of the floor.
- B. The GFA calculation for a floor with a ceiling height of more than 16 feet, is 200% of the area of the floor.
- C. The GFA calculation for a stair case shall be counted as a single floor for the first two stories accessed by the stair case. For each additional story above two stories, the stair case shall count as a single floor area.

## **GROSS FLOOR AREA CALCULATIONS**

A.	Lot Area	30,945	Square Feet
В.	Allowed Gross Floor Area (refer to "Allowed GFA")	12,000	Square Feet
C.	Proposed Gross Floor Area	11,499	Square Feet

# **BUILDING HEIGHT**

All building height measurements must be taken from existing grade or finished grade, whichever is lower. Existing grade refers to ground surface as it exists at the proposed building perimeter before grading or other alterations take place. Finished grade refers to the ground surface as it exists at the building perimeter after grading or other alterations take place.

Single family new construction and additions are limited to a maximum height of 30 ft. above the Average Building Elevation (ABE) – see section on next pages. The height is measured to the top of the structure. On the downhill side of a sloping lot, the wall façade height is also limited to a height of 30 feet measured from existing or finished grade (whichever is lower) to the top of the exterior wall facade supporting the roof framing, rafters, trusses, etc.

A topographic survey is required at permit application when the proposed building height is within 2 ft. of the allowable building height. The survey must include a statement that attests the average contour elevation within the vicinity of the building footprint to be accurate within 6 inches vertically and horizontally from actual elevations.

<sup>\*</sup>Floor plans shall identify rooms with a ceiling height of more than 12 feet and rooms with a ceiling height of more than 16 feet.

#### **BUILDING HEIGHT CALCULATIONS**

A.	Average Building Elevation (ABE) calculations located on sheet #:	A-1.2	
B.	Allowable Building Height (ABE + 30 ft.)	70.33'	Feet
C.	Proposed Building Height	(no change to existing)	Feet
D.	Benchmark Elevation*	53.58'	Feet
E.	Describe Benchmark Location (must be undisturbed throughout project)	** see below	
F.	Sloping lot (Downhill side)- maximum height of top of exterior wall façade		
	above lowest existing grade (30-ft max)	(no change to existing)	Feet
G.	ABE and Allowable Building Height Shown on elevations plan sheet #	A-3.1 & A-3.2	
Н.	Topo-survey Accuracy Attested on Plan Sheet #	Sheet 1 of Survey	

Note: survey must attest to accuracy when proposed building height is within 2 feet of the allowable building height.

Please see page 7 for more information on calculating Average Building Elevation (ABE)

\*\*Benchmark location is a catch basin rim elevation located on the south side of North Mercer Way (noted on Sheet 2 of Survey)

<sup>\*</sup>The benchmark elevation is a fixed elevation point on or off site that will not be disturbed during development activity and is used to verify the final building height.